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MYERS BIGEL SIBLEY & SAJOVEC

Patent Attorneys

4140 Parklake Avenue, Suite 600, Raleigh, NC 27612

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Date: November 2, 2005

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To: Examiner Pamela E. Perkins, GAU 2822

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From: Mitchell S. Bigel

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Re: Slater, Jr. et al., *Methods of Fabricating Light Emitting Devices Using Mesa Regions and Passivation Layers*, Serial No. 10/825,647,
filed April 15, 2004

Regarding the above-identified application, attached are the following documents:

1. Request for Signed Copies of Forms PTO-1449;
2. Photocopy of Information Disclosure Statement dated April 15, 2004, with Forms PTO-1449 and postcard receipt; and
3. Photocopy of Information Disclosure Statement dated August 24, 2004, with Form PTO-1449 and postcard receipt.

CERTIFICATION OF FACSIMILE TRANSMISSION
UNDER 37 CFR § 1.8

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NOV 02 2005

Attorney Docket No. 5308-231DV

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Slater, Jr. et al.
Serial No.: 10/825,647
Filed: April 15, 2004

Confirmation No.: 9433
Examiner: Pamela E. Perkins
Group Art Unit: 2822
For: METHODS OF FABRICATING LIGHT EMITTING DEVICES USING MESA
REGIONS AND PASSIVATION LAYERS

November 2, 2005

Mail Stop Issue Fee
Commissioner for Patents
Box 1450
Alexandria, VA 22313-1450

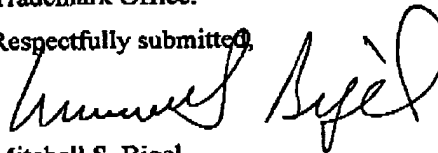
REQUEST FOR SIGNED COPIES OF FORMS PTO-1449

Sir:

In response to the Notice of Allowance mailed October 6, 2005, Applicants respectfully request that the Examiner return signed copies of the Forms PTO-1449 that accompanied Applicant's Information Disclosure Statement ("IDS") filed on April 15, 2004, and the Supplemental IDS filed August 24, 2004. Applicants note that the IDS filed April 15, 2004 included the Forms PTO-1449 signed by the Examiner in parent application Serial No. 10/200,244, as well as a Form PTO-1449 listing the reference cited by the Examiner in the parent application. However, in order to confirm that these references have been considered by the Examiner in the current application, request is made for newly signed copies of those Forms PTO-1449.

For the convenience of the Examiner, copies of the two IDS documents and the Forms PTO-1449 are attached hereto. Also attached are copies of the stamped postcards indicating receipt by the U.S. Patent and Trademark Office.

Respectfully submitted,

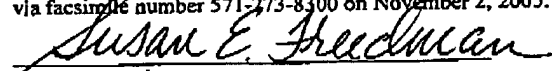


Mitchell S. Bigel
Registration No. 29,614
Attorney for Applicants

Customer Number 20792
Myers Bigel Sibley & Sajovec, P.A.
P.O. Box 37428
Raleigh, NC 27627
919-854-1400
919-854-1401 (Fax)

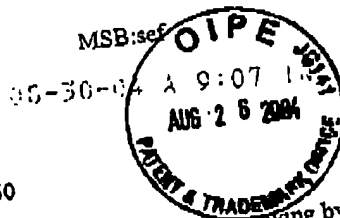
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Susan E. Freedman
Date of Signature: November 2, 2005

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

MSB:sef



5308-231DV
August 24, 2004

Sir: Kindly acknowledge receipt of the accompanying by placing your receiving date stamp hereon and mailing:

Supplemental Information Disclosure Statement, Form PTO-1449 and 12 cited references; In re: David B. Slater, Jr. et al.; Serial No. 10/825,647; Filed April 15, 2004; For: METHODS OF FABRICATING LIGHT EMITTING DEVICES USING MESA REGIONS AND PASSIVATION LAYERS

Respectfully submitted,
MYERS BIGEL SIBLEY & SAJOVEC

Attorney Docket No. 5308-231DV

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: David B. Slater, Jr.; Bradley E. Williams; Peter S. Andrews
Serial No.: To Be Assigned
Filed: Concurrently Herewith
Entitled: METHODS OF FABRICATING LIGHT EMITTING DEVICES USING MESA
REGIONS AND PASSIVATION LAYERS

April 15, 2004

Mail Stop PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

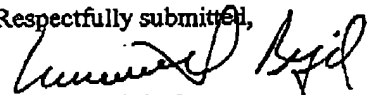
INFORMATION DISCLOSURE STATEMENT

Sir:

Attached is a copy of five (5) forms PTO-1449 as filed in parent application serial number 10/200,244, with the application serial number and filing date of the parent application struck through and the application serial number and filing date of the above-referenced application written in. In addition, a form PTO 1449 is attached with a list of references cited by the Examiner on form PTO 892 in the prosecution of the parent application. A copy of each of the references above has been submitted to, or cited by, the Examiner in the parent application and is not provided herewith. It is requested that all of these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. §1.56 and Section 609 of the MPEP.

No fee is believed due. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220.

Respectfully submitted,

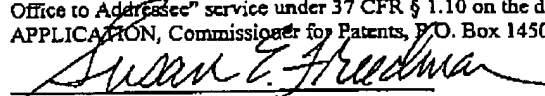

Mitchell S. Bigel
Registration No. 29,614

Myers Bigel Sibley & Sajovec, P.A.
P. O. Box 37428, Raleigh, NC 27627
Telephone: (919) 854-1400
Facsimile: (919) 854-1401
Customer No. 20792

CERTIFICATE OF EXPRESS MAILING

Express Mail Label No. EV 381441410 US
Date of Deposit: April 15, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Adaircase" service under 37 CFR § 1.10 on the date indicated above and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Susan E. Freedman

Date of Signature: April 15, 2004

[illegible]

PAGE 5/13 * RCVD AT 11/2/2005 8:28:10 AM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/24 * DNIS:2738300 * CSID:919 854 1401 * DURATION (mm-ss):05-34

Form PTO-1449 U.S. Department of Commerce
Patent and Trademark OfficeAttorney Docket No.
5308-231 DVSerial No.
To Be AssignedLIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)Applicants:
David B. Slater, Jr. et al.Filing Date:
To Be AssignedGAUW
Filing Date: 11/22/02

U.S. PATENT DOCUMENTS

Examiner Initials		Document No.	Date	Name	Class	Subclass	Filing Date
II	1	6,229,160	05/08/01	Krames et al.	257	94	
II	2	6,222,207	04/24/01	Carter-Coman et al.	257	98	
II	3	6,204,523	03/20/01	Carey et al.	257	98	
II	4	6,201,264	03/13/01	Khare et al.	257	97	
II	5	6,194,742	02/27/01	Kern et al.	257	94	
II	6	6,177,688	01/23/01	Linthicum et al.	257	77	
II	7	6,169,294	01/02/01	Bing-Jye et al.	257	79	
II	8	6,147,458	11/14/00	Bucks et al.	325	225	
II	9	6,139,166	10/31/00	Marshall et al.	362	231	
II	10	6,133,589	10/17/00	Krames et al.	257	103	
II	11	6,121,637	09/19/00	Isokawa et al.	257	99	
II	12	6,121,636	09/19/00	Morita et al.	257	99	
II	13	6,118,259	09/12/00	Bucks et al.	323	312	
II	14	6,097,041	08/01/00	Lin et al.	257	98	
II	15	6,091,085	07/18/00	Lester	257	98	
II	16	6,046,465	04/04/00	Wang et al.	257	98	
II	17	5,952,681	09/14/99	Chen	257	89	
II	18	5,917,202	06/29/99	Haitz et al.	257	98	
II	19	5,912,477	06/15/99	Negley	257	95	
II	20	5,779,924	07/14/98	Krames et al.	216	24	
II	21	5,777,350	07/07/98	Nakamura et al.	257	96	
II	22	5,767,581	06/16/98	Nakamura et al.	257	749	
II	23	5,718,760	02/17/98	Carter et al.	117	84	
II	24	5,523,589	06/04/96	Edmond et al.	257	77	
II	25	5,416,342	05/16/95	Edmond et al.	257	76	
II	26	5,393,993	02/28/95	Edmond et al.	257	77	
II	27	5,369,289	11/29/94	Tamaki et al.	257	99	
II	28	5,247,533	09/21/93	Okazaki et al.	372	45	
II	29	5,237,182	08/17/93	Kitagawa et al.	257	15	
II	30	5,210,051	05/11/93	Carter, Jr.	437	107	
II	31	5,187,547	02/16/93	Niina et al.	257	77	
II	32	5,087,949	02/11/92	Haitz	357	17	
II	33	5,006,908	04/09/91	Matsuoka et al.	357	17	
II	34	4,966,862	10/30/90	Edmond	437	100	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes / No
II	35	GB 2 346 480 A	08/09/00	United Kingdom			
II	36	2000-195827	07/14/00	Japan			X (Abstract)
II	37	EP 0 961 328 A2	12/01/99	EPO			
II	38	10-256604	09/25/98	Japan			X (Abstract)
II	39	10-233549	09/02/98	Japan			X (Abstract)
II	40	10-163530	06/19/98	Japan			X (Abstract)
II	41	09-223846	08/26/97	Japan			X (Abstract)
II	42	9-82587	03/28/97	Japan			X (Abstract)
II	43	08-321660	12/03/96	Japan			X (Abstract)
II	44	07-235729	09/05/95	Japan			X (Abstract)
II	45	06-232510	08/19/94	Japan			X (Abstract)
II	46	1-225377	09/08/89	Japan			X (Abstract)
II	47	56-131977	10/15/81	Japan			X (Abstract)

Examiner:

Date Considered: 04/03

Examiner:

Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 5308-231	Serial No. To Be Assigned
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)			Applicants: David B. Slater, Jr., et al.	
			Filing Date: To Be Assigned	
GAU:				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				
TT	48	OSRAM Enhances Brightness of Blue InGaN LEDs, Compound Semiconductor, Volume 7, No. 1, February 2001, p. 7		
TT	49	Craford, Outlook for AlInGaP Technology, Presentation, Strategies in Light 2000		
TT	50	Krames et al., High-Power Truncated-Inverted-Pyramid (Al _x Ga _{1-x}) _{0.5} In _{0.5} P/GaP Light-Emitting Diodes Exhibiting >50% External Quantum Efficiency, Applied Physics Letters, Vol. 75, No. 16, October 18, 1999, pp. 2365-2367		
TT	51	Lambrech et al., Band Structure Interpretation of the Optical Transitions Between Low-Lying Conduction Bands in n-Type Doped SiC Polytypes, Materials Science Forum, Vols. 264-268, 1998, pp. 271-274		
TT	52	Craford, Overview of Device Issues in High-Brightness Light-Emitting Diodes, Chapter 2, High Brightness Light Emitting Diodes: Semiconductors and Semimetals, Vol. 48, Stringfellow et al. ed., Academic Press, 1997, pp. 47-63		
TT	53	Yoo et al., Bulk Crystal Growth of 6H-SiC on Polytype-Controlled Substrates Through Vapor Phase and Characterization, Journal of Crystal Growth, Vol. 115, Vol. 1991, pp. 733-739		
TT	54	Biederman, The Optical Absorption Bands and Their Anisotropy in the Various Modifications of SiC, Solid State Communications, Vol. 3, 1965, pp. 343-346		
TT	55	U.S. Application Serial No. 09/154,363, entitled Vertical Geometry InGaN LED		

Examiner:

Date Considered:

Examiner:

Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to

5308-231 DV

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Substitute form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet: 1 of

MAR 07 2003

PATENT & TRADEMARK

State if Known

Application Number	6/200,244 TO BE ASSIGNED
Filing Date	07/22/2002 CONCURRENTLY
First Named Inventor	David B. Slater, Jr.
Group Art Unit	2023
Examiner Name	Tan N. Tran
Attorney Docket Number	6308-231 DV

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
TT	1.	2003/0006418	A1	Emerson et al.	01/09/2003	
TT	2.	6,455,878	B1	Bhat et al.	09/24/2002	
TT	3.	6,187,806	B1	Edmond et al.	02/13/2001	
TT	4.	6,120,800		Edmond et al.	09/18/2000	
TT	5.	5,739,554		Edmond et al.	04/14/1998	
TT	6.	5,631,190		Negley	05/20/1997	
TT	7.	5,604,135		Edmond et al.	02/18/1997	
TT	8.	5,338,994		Lezan et al.	08/18/1994	
TT	9.	5,027,168		Edmond	06/25/1991	
TT	10.	4,918,497		Edmond	04/17/1990	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
TT	11.	JP	11-191641	A	Matsushita Electron Corp.	07/13/1999		
TT	12.	EP	0 051 172	A1	Siemens Aktiengesellschaft	05/12/1982		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T
TT	13.	International Search Report, PCT/US02/02849, 12/02/02	
TT	14.	U.S. Application Serial No. 10/003,331, filed 10/31/01, Low Temperature Formation of Backside Ohmic Contacts for Vertical Devices	
TT	15.	U.S. Application Serial No. 60,411,880, filed 09/19/02, Phosphor-Coated Light Emitting Diodes Including Tapered Sidewalls, and Fabrication Methods	
TT	16.	U.S. Application Serial No. 60,307,235, filed 07/23/01, Light Emitting Diodes Including Modifications for Light Extraction and Manufacturing Methods Therefor	
TT	17.	U.S. Application Serial No. 60/294,445, filed 05/30/01, Multi-Quantum Well Light Emitting Diode Structure	
TT	18.	U.S. Application Serial No. 60/294,378, filed 05/30/01, Light Emitting Diode Structure With Multi-Quantum Well and Superlattice Structure	
TT	19.	U.S. Application Serial No. 60/294,308, filed 05/30/01, Light Emitting Diode Structure With Superlattice Structure	
TT	20.	U.S. Application Serial No. 09/787,189, filed 03/15/01, Low Temperature Formation of Backside Ohmic Contacts for Vertical Devices	
TT	21.	U.S. Application Serial No. 60/269,707, filed 02/01/01, Light Emitting Diode With Optically Transparent Silicon Carbide Substrate	
TT	22.	Menz et al., In _x Ga _{1-x} N/Al _y Ga _{1-y} N Violet Light Emitting Diodes With Reflective p-Contacts for High Single Sided Light Extraction, Electronics Letters, Vol. 33, No. 24, 11/20/97, pp. 2088-2088	
TT	23.	Honma et al., Evaluation of Barrier Metals of Solder Bumps for Flip-Chip Interconnection, Electronic Manufacturing Technology Symposium, 1995, Proceedings of 1995 Japan International, 18 th IEEE/CPMT, 12/04/95, pp. 113-116	
TT	24.	Lee et al., Bonding of InP Laser Diodes by Au-Sn Solder and Tungsten-Based Barrier Metallization Schemes, Semiconductor Science and Technology, Vol. 9, No. 4, 4/94, pp. 379-386	

Examiner Signature	<i>Tan N. Tran</i>	Date Considered	06/10/03
--------------------	--------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EV 381441410 US

MSB:sef

5308-231DV
April 15, 2004Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-145004-25-04 22143 U.S. PTO
10/825647

041504

Sir: Kindly acknowledge receipt of the accompanying by placing your receiving date stamp hereon and mailing:

Application Transmittal (in duplicate); Check-\$770.00; Remarks Accompanying Divisional Application; Photocopy of Declaration from parent USSN 10/200,244; Patent Application (23 pp., 20 claims, 6 drawing sheets); Information Disclosure Statement and Forms PTO-1449 (6 pp.); In re: David B. Slater, Jr.; Bradley E. Williams; Peter S. Andrews; For: METHODS OF FABRICATING LIGHT EMITTING DEVICES USING MESA REGIONS AND PASSIVATION LAYERS

Respectfully submitted,
MYERS BIGEL SIBLEY & SAJOVEC

NOV 02 2005

Attorney's Docket No. 5308-231DV

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: David B. Slater, Jr., et al.
Serial No.: 10/825,647
Filed: April 15, 2004
Entitled: METHODS OF FABRICATING LIGHT EMITTING DEVICES USING MESA REGIONS
AND PASSIVATION LAYERS

August 24, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

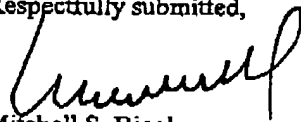
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
FOR INTERNATIONAL SEARCH REPORT

Sir:

Attached is a Supplemental Form PTO-1449 listing documents cited in the International Search Report for the related International Application Number PCT/US03/21909. Each document listed on the attached PTO-1449 was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement. A copy of any listed foreign patent document and/or non-patent literature including the Search Report, is enclosed. A copy of any listed U.S. patent and/or U.S. patent application publication is not provided herewith in accordance with the waiver by the U.S. Patent and Trademark Office of requirements under 37 C.F.R. § 1.98(a)(2)(i) for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003. In accordance with MPEP § 609, the submission of the copy of the Search Report should serve as satisfying the requirement of a concise explanation of the listed non-English language references. It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. § 1.56 and Section 609 of the MPEP.

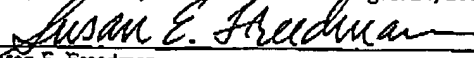
No fee is believed due; however, the Commissioner is hereby authorized to charge any deficiency or credit any refund to Deposit Account No. 50-0220.

Respectfully submitted,


Mitchell S. Bigel
Registration No. 29,614

Myers Bigel Sibley & Sajovec, P.A.
P. O. Box 37428, Raleigh, NC 27627
Telephone: (919) 854-1400
Facsimile: (919) 854-1401
Customer No. 20792

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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on August 24, 2004.


Susan E. Freedman
Date of Signature: August 24, 2004

Substitute form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/825,647
		Filing Date	04/15/2004
		First Named Inventor	David B. Slater, Jr.
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
Sheet	1	of	1
		Attorney Docket Number	5308-231DV

U.S. PATENTS AND PATENT PUBLICATIONS					
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)		
	1	US-2004/0149999	A1	Uemura et al.	08/05/2004
	2	US-4,441,187		Bouley et al.	04/03/1984
	3	US-4,238,764		Carballes et al.	12/09/1980
	4	US-3,894,919		Schwartz et al.	07/15/1975
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office	Number	Kind Code (if known)		
	5	WO	03/010817	A2	Cree, Inc.	02/06/2003
	6	WO	02/101841	A1	Toyoda Gosei Co., Ltd.	12/19/2002
	7	WO	02/075819	A2	Osram Opto Semiconductors GMBH & Co., OHG	09/26/2002
	8	WO	01/47039	A1	Lumileds Lighting, U.S., LLC	06/28/2001
	9	JP	2001-291899	A	Sanken Electric Co Ltd.	10/19/2001
	10	JP	11-340514	A	Nichia Chem Ind Ltd	12/10/1999
	11	JP	11-121803	A	Hitachi Cable Ltd	04/30/1999

OTHER NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		
	12	International Search Report, PCT/US03/21909, 08/10/2004		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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